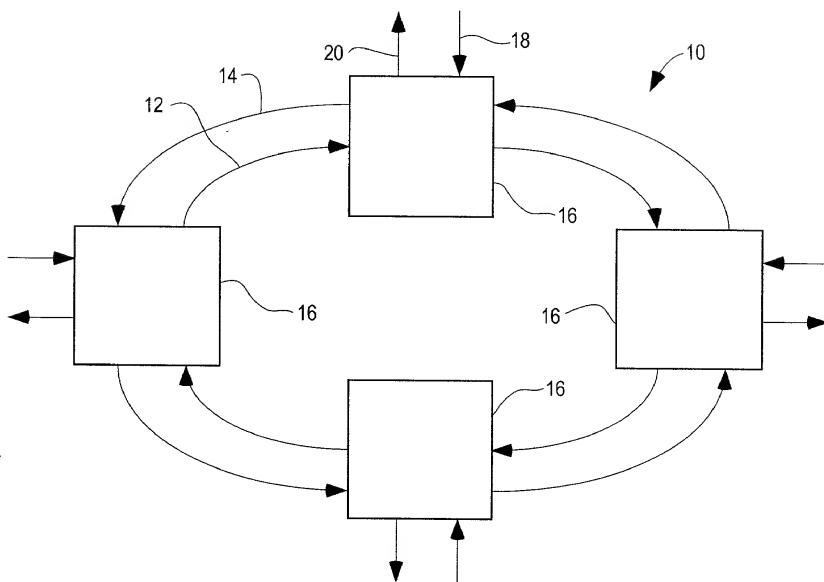
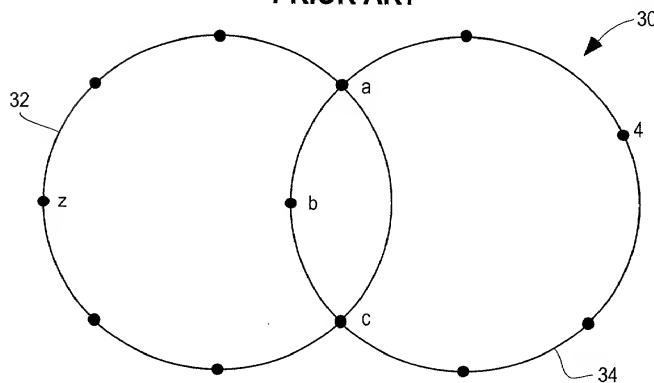


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**FIG. 1**  
**PRIOR ART**

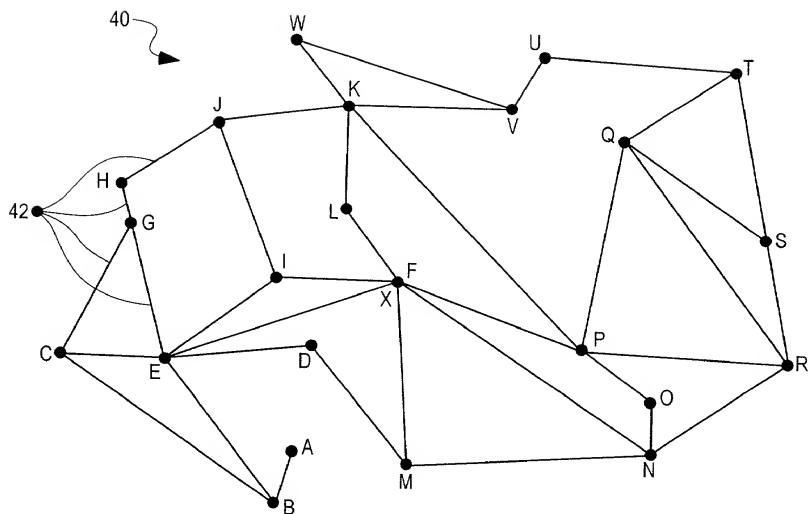


**FIG. 2**  
**PRIOR ART**



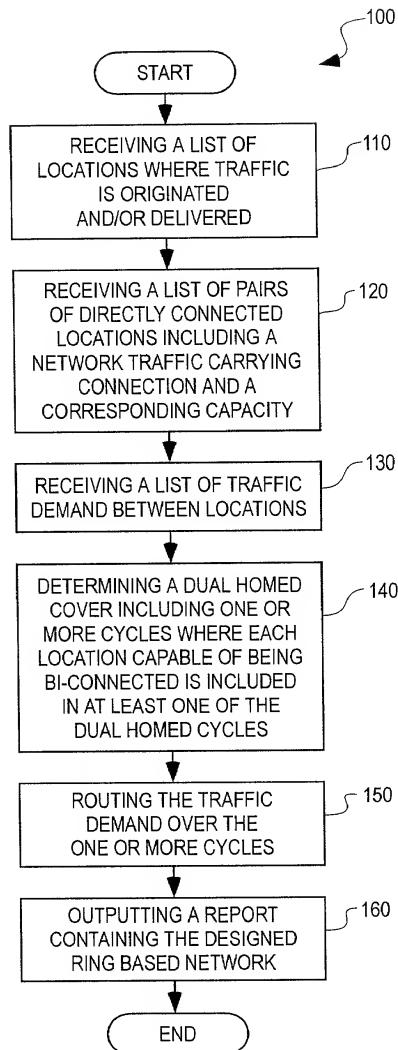
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FIG. 3



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**FIG. 4**



**FIG. 5A**

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LOCATIONS
A
B
C
D
E

200  
205**FIG. 5B**

LOCATIONS DIRECTLY CONNECTED		TOTAL # FIBER	SPARE # FIBER
O	N	28	1
M	N	20	4
E	I	19	5
		...	...

**FIG. 5C**

LOCATION PAIRS		TRAFFIC BETWEEN LOCATIONS
A	B	374
A	C	22
A	D	7
	...	...

235

240  
245  
250**FIG. 5D**

	A	B	C	D	E	F
A	-	374	22	7	...	...
B	374	-	...	...	...	...
C	22	...	-	...	...	...
D	7	...	...	-	...	...
E	...	...	...	...	-	...

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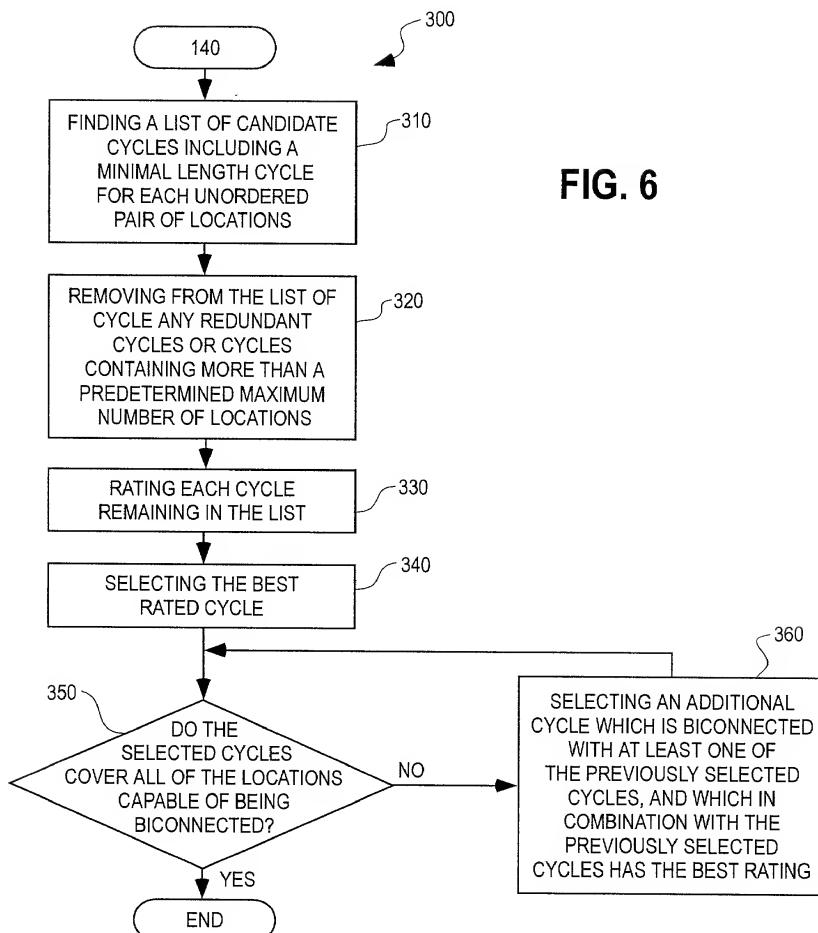
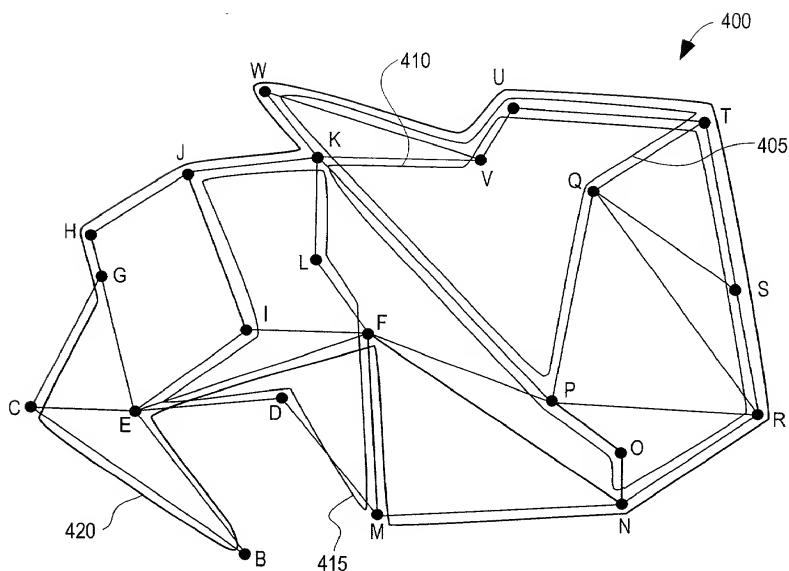


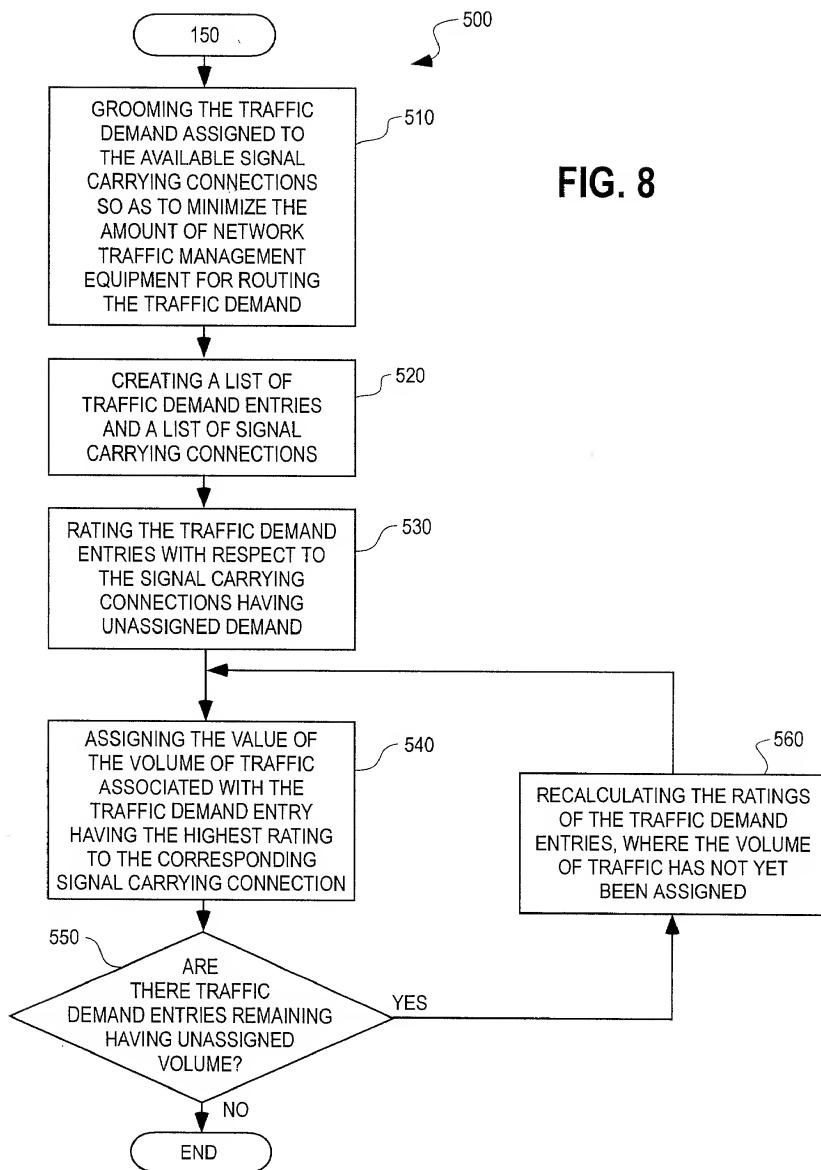
FIG. 6

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**FIG. 7**

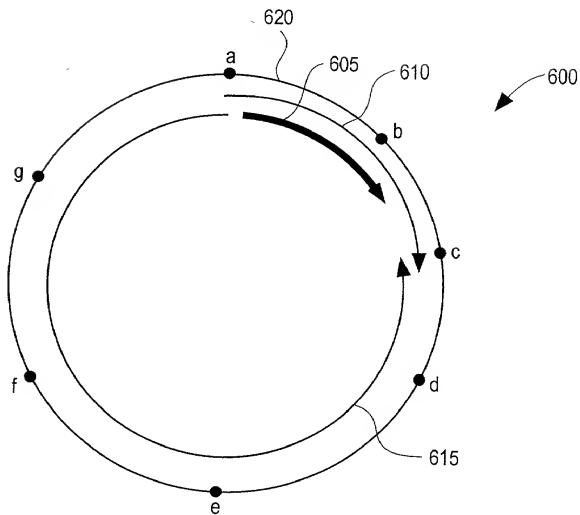


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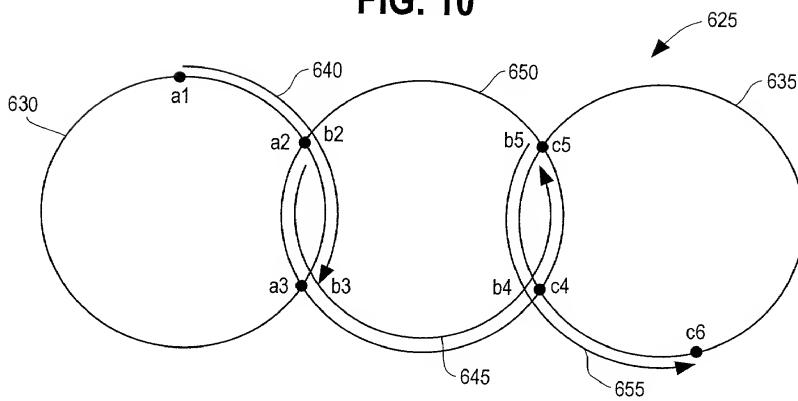
**FIG. 8**

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**FIG. 9  
PRIOR ART**



**FIG. 10**



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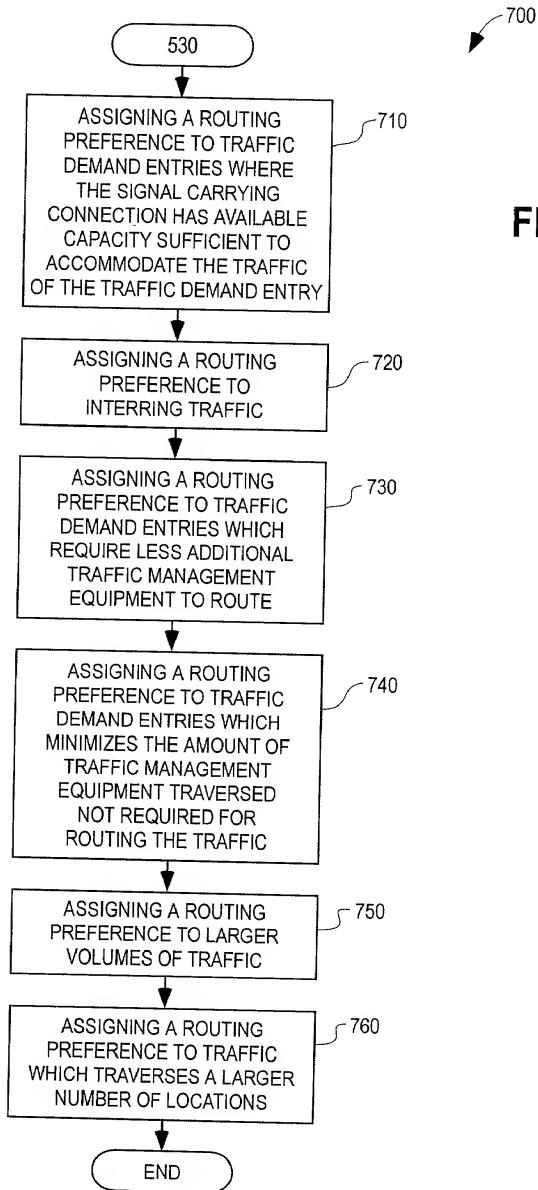
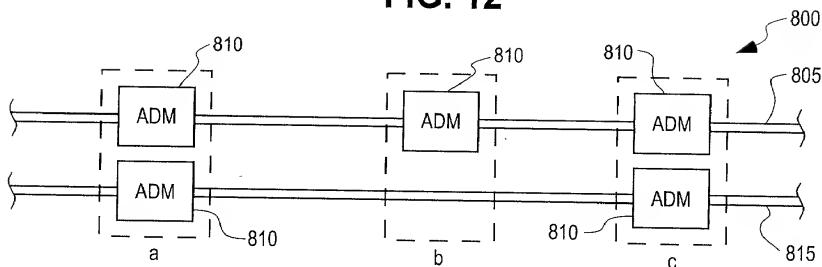


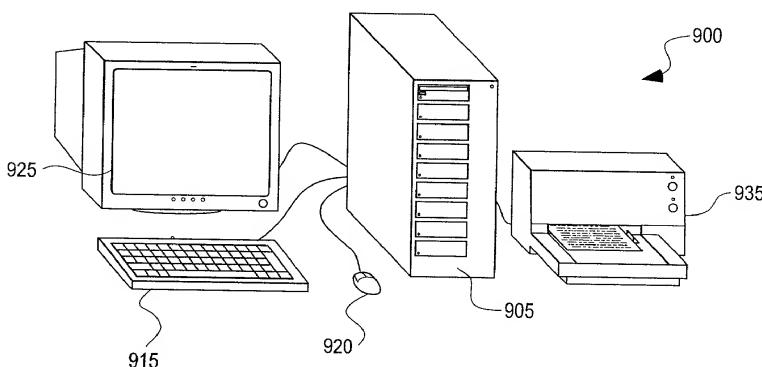
FIG. 11

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**FIG. 12**



**FIG. 13**



**FIG. 14**

